

## WHAT IS CLAIMED IS:

1. A portable data-gathering device for electronically recording information related to fishing conditions at a remote location, said device comprising:

5 a set of sensors for measuring physical properties related to fishing conditions at the remote location; and

a storage device connected to said set of sensors for electronically storing data relating to said physical properties measured by said set of sensors.

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2. The device of claim 1, further comprising circuitry for sending a signal comprising said data to a central repository.

15 3. A portable data-gathering device for electronically recording data related to conditions at a remote location, said device comprising:

an environmental sensor for measuring data relating to environmental conditions at a remote location to which said device is taken;

20 a measuring device for measuring physical data relating to a specimen encountered at the remote location;

a global positioning system for determining a longitude and latitude of the remote location;

processor circuitry for receiving said environmental, physical, and longitude and latitude data from said sensor, said measuring device, and said global positioning system; and memory circuitry for electronically storing said 5 environmental, physical, and longitude and latitude data received by said processor.

26 4. The device of claim 3, wherein said measuring device includes a scale for measuring the weight of the specimen.

10 5. The device of claim 3, wherein said measuring device 3 includes a retractable cable for measuring the length of the specimen.

15 6. The device of claim 3, wherein said environmental sensor includes a retractable probe for measuring water conditions at the remote location.

7. The device of claim 6, wherein said retractable probe 20 includes a temperature sensor.

8. The device of claim 3, wherein said environmental sensor includes a sensor for measuring atmospheric conditions at the location.

9. The device of claim 8, wherein said sensor for measuring atmospheric conditions includes a barometer.

10. The device of claim 8, wherein said sensor for 5 measuring atmospheric conditions includes a temperature sensor for measuring air temperature.

11. The device of claim 3, further comprising:

an input mechanism on the case for manually providing

10 additional information related to selected conditions at the remote location; and

wherein said processor circuitry is adapted to receive said additional information, and said memory circuitry is adapted to electronically store said additional information along with said 15 environmental and physical data.

12. The device of claim 3, further comprising a transmitter for sending a signal comprising said environmental and specimen data to a central data storage facility.

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13. The device of claim 3, further comprising a water proof floating case.

14. A remote device for exchanging information related to fishing conditions with a central repository, said device comprising:

a transmitter for sending a first signal to a central  
5 repository, said first signal including location data identifying  
a selected location;  
a receiver for receiving a second signal from the central  
repository, said second signal comprising information related to  
fishing conditions at the selected location;  
10 memory circuitry for storing said information; and  
a display for viewing said information.

15. The device of claim 14, further comprising:

an input mechanism for recording data related to fishing  
15 conditions at a remote location to which said device is taken;  
and

a transmitter for sending a third signal to the central  
repository, said third signal comprising said data recorded at  
the remote location.

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16. A system for exchanging information related to fishing conditions between a portable recording device and a central repository, said system comprising:

a portable recording device for electronically storing information related to fishing conditions obtained at a remote location to which said portable recording device is taken;

a central repository including processor and memory

5 circuitry for compiling a retrievable archive of information previously stored in said portable recording device; and

an interface for enabling communications between said portable recording device and said central repository.

10 17. The system of claim 16, wherein:

said central repository comprises a personal computer;

said interface comprises a cable connectable between a data port in said portable recording device and said personal computer; and

15 said personal computer includes circuitry for recovering said information from said portable recording device, and for adding said information to its retrievable archive.

18. The system of claim 16, wherein:

20 said interface comprises a transmitter in said portable recording device for sending a signal comprising said information; and

said central repository comprises a network server.

19. A system for exchanging data on fishing conditions between a remote location and a network server, said system comprising:

a remote unit including sensors for electronically recording

5 data related to fishing conditions at a remote location to which the remote unit is taken, memory circuitry for temporarily storing said data; and a transmitter for sending a data signal comprising said recorded data to a communications system coupled to said network server; and

10 a network server including memory circuitry for storing said recorded data sent from said remote unit, and processor circuitry for adding said measured data to a database of previously compiled data on fishing conditions.

15 20. The system of claim 19, wherein:

said remote unit includes a transmitter for sending an inquiry signal comprising a selected location, a receiver for receiving a data signal comprising previously compiled data on fishing conditions at the selected location, and a display for 20 reviewing said previously compiled data;

said network server includes processor circuitry for extracting said previously compiled data from said database.

21. A system for compiling data on conditions at a plurality of fishing locations, said system comprising:

a plurality of portable recording devices adapted to be taken to remote fishing locations, each remote unit including an 5 input mechanism for recording data on fishing conditions at each respective location, and including a transmitter for sending a signal comprising said data; and

a network server adapted to receive said data from said remote units, said server including processor circuitry for 10 collecting said data from said remote units, and including memory circuitry for storing said data, thereby accumulating a database on fishing conditions at a variety of remote fishing locations.

22. A method of exchanging information between a portable recording device and a central repository, said method comprising 15 the steps of:

providing a portable recording device including an input mechanism, memory circuitry and a transmitter/receiver;

providing a central repository comprising memory circuitry, 20 and processor circuitry for storing a database of relevant information on a variety of locations in the memory circuitry;

taking the portable recording device to a remote location; electronically recording data at the remote location with 25 the input mechanism of the portable recording device;

storing the data in the memory circuitry of the portable recording device;

5 sending a signal from the transmitter/receiver of the portable recording device, the signal comprising the data stored in the memory circuitry;

receiving the data comprising the signal at the central repository; and

10 adding the data to the database of previously compiled information stored in the memory circuitry of the central repository.

23. The method of claim 22, wherein said step of electronically recording data comprises the steps of:

catching a fish;

15 electronically recording physical data descriptive of the fish; and

electronically recording data on environmental conditions at the remote location.

20 24. The method of claim 23, wherein said step of electronically recording physical data comprises the steps of: electronically measuring the weight of the fish; and measuring the length of the fish.

25. A method of electronically recording information related to fishing conditions at a remote location, said method comprising:

providing a remote fish logging device including an input

5 mechanism and memory circuitry;

taking the remote fish logging device to a remote location;

electronically recording data related to fish caught at the remote location with the remote fish logging device; and

transferring the recorded data to a mass memory storage

10 device external of the remote fish logging device.

26. The method of claim 25, wherein said step of electronically recording data comprises the steps of:

electronically recording species data on the fish;

15 electronically measuring specimen data on the fish; and

comparing the specimen data with species data stored in the memory circuitry of the remote fish logging device to decide whether to keep the fish.

20 27. The method of claim 26, wherein said step of

electronically recording comprises the additional steps of:

electronically measuring data on environmental conditions at the location with the remote fish logging device; and

storing the specimen and environmental data in the memory circuitry of the remote fish logging device.

28. The method of claim 25, wherein said transferring step  
5 comprises sending a signal from a transmitter in the remote fish  
logging unit, the signal comprising the data.

29. The method of claim 25, comprising the additional steps  
of:

10 transferring a request for data on fishing conditions for a  
selected location from the remote fish logging device to a  
network server;

extracting compiled data on fishing conditions for the  
selected location from a database stored in the network server;  
15 and

transferring the compiled data to the remote fish logging  
device.

30. The method of claim 29, wherein said step of  
20 transferring a request comprises the step of sending an inquiry  
signal from a transmitter in the remote fish logging device, the  
inquiry signal comprising the selected location.

31. The method of claim 30, wherein said step of transferring the compiled data comprises the steps of:

    sending a data signal from the network server, the data signal comprising the compiled data; and

5       receiving the data signal with a receiver in the remote fish logging device.

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